Technalysis[®]

PASSAGE[®]/FLOW Software

OVERVIEW

PASSAGE[®]/FLOW is a general purpose threedimensional finite element program used for the solution of fluid dynamics and heat transfer problems.

• Together with **PASSAGE®/SYSFLOW**, it can be used to provide a solution of component and system design issues for product and process design.

• Together with **PASSAGE®/DEM**, the software can be used to provide a solution of problems where micro- and macro-scale issues are combined. PROCESSES

Filling



Agitation



Product Design:

- On and Off-Highway Vehicles
- Equipment (Electrical, Hydraulic, Pneumatic)
- Electric motors, generators
- Appliances
- Refrigerators, air-conditioners
- Ink jet and electro-photographic printers
- Semiconductors

Process Design:

- Food
- Pharmaceuticals and Chemicals
- Metals. Plastics.
- Glass, Ceramics
- Powder

APPLICATIONS

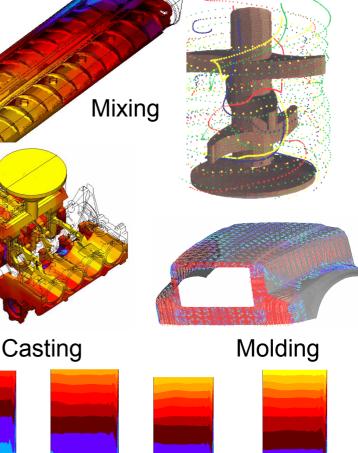
· Process Modeling: heating, cooling, pollution control, casting, molding, forming, mixing, wetting, filtration, fermentation and filling,

 Product Design: energy efficiency, noise, performance

· Flow of liquids, gasses, and powders with free surface, ,mixing, melting/freezing,

 Flows in magnetic and electrical fields coupled with structural deformations.

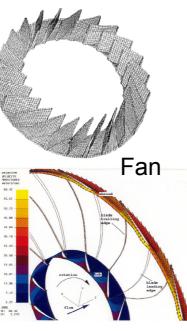
 Flows through complex stationary and rotating passages; pressure losses and flow induced noise problems.



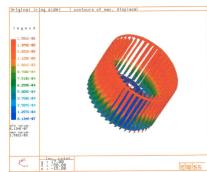


PRODUCTS

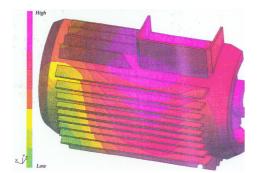




Airconditioner









Electric Motor

Refrigerator

FEATURES

•Coupled equations of motions are solved for flow and heat transfer equations with a variety of nonlinear material properties.

• A user friendly pre- and post-processor is provided for the input of geometry and material properties, as well as displaying a variety of results in time.

• Graphical user interface enables review of complex unsteady flow fields in detail.

• **PASSAGE**[®]/**FLOW** runs on PC based workstations,

• Software has been validated and utilized for the design of many real world problems. It is supported by numerous case studies.

• Technalysis provides design experience complementing the software.•

• **PASSAGE**[®]/**FLOW** software was developed and is offered exclusively by Technalysis, Inc..

BENEFITS

•**PASSAGE**[®]/**FLOW** software can minimize the cost and time of traditional prototype building and testing, thus shortening product/process design cycles.

• Designs can be analyzed and modified on the computer before prototypes are built or decisions are finalized when design changes become costly and time consuming,

• Technalysis offers software customization of **PASSAGE®/FLOW** software to meet specific customer needs for complex product/process designs,

Technalysis has extensive experience since 1985 for incorporating simulation to design process.

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